FIG. 1

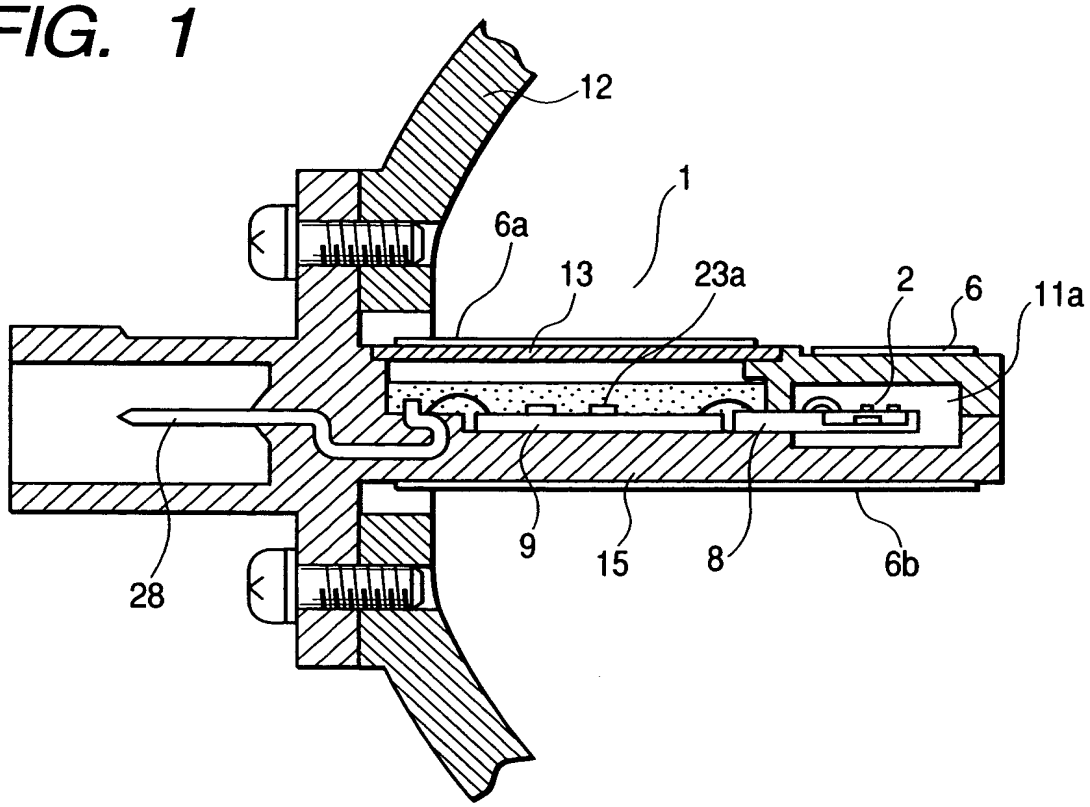

FIG. 2

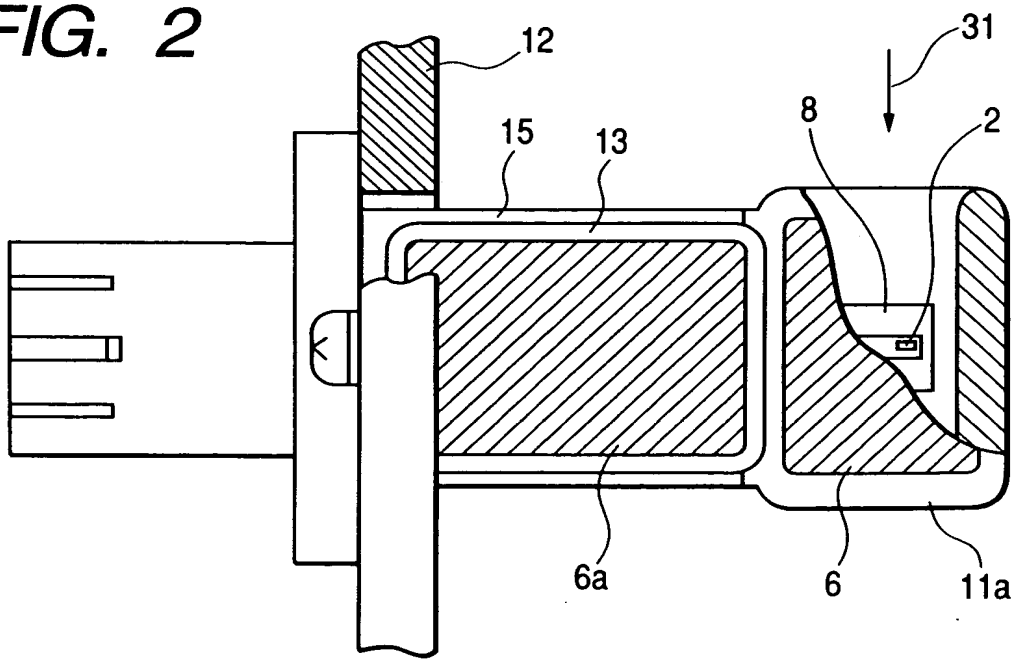

FIG. 3

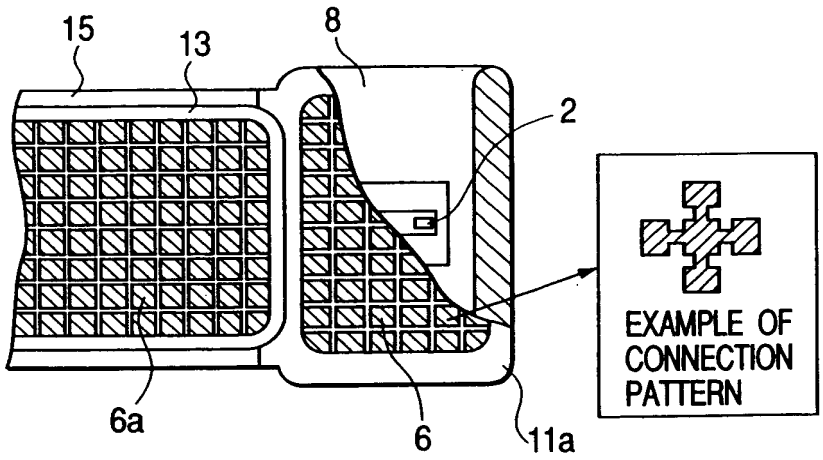

FIG. 4

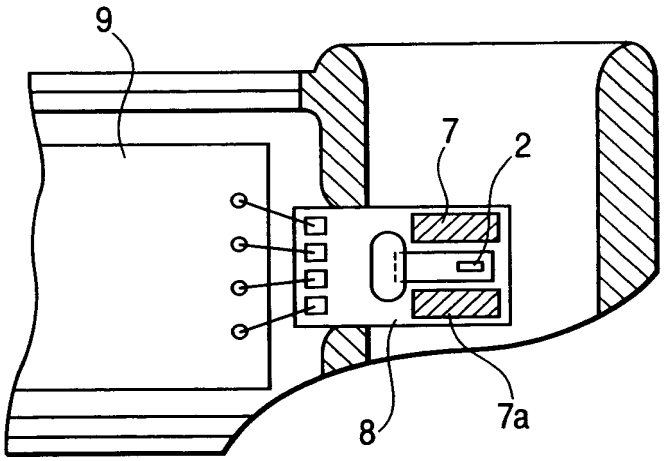

FIG. 5

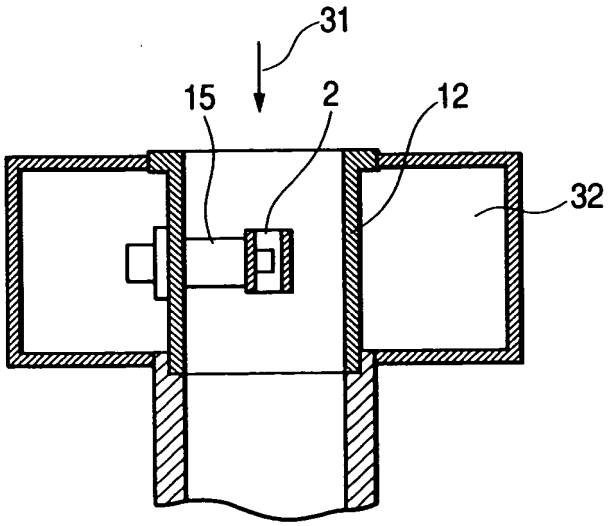

FIG. 6

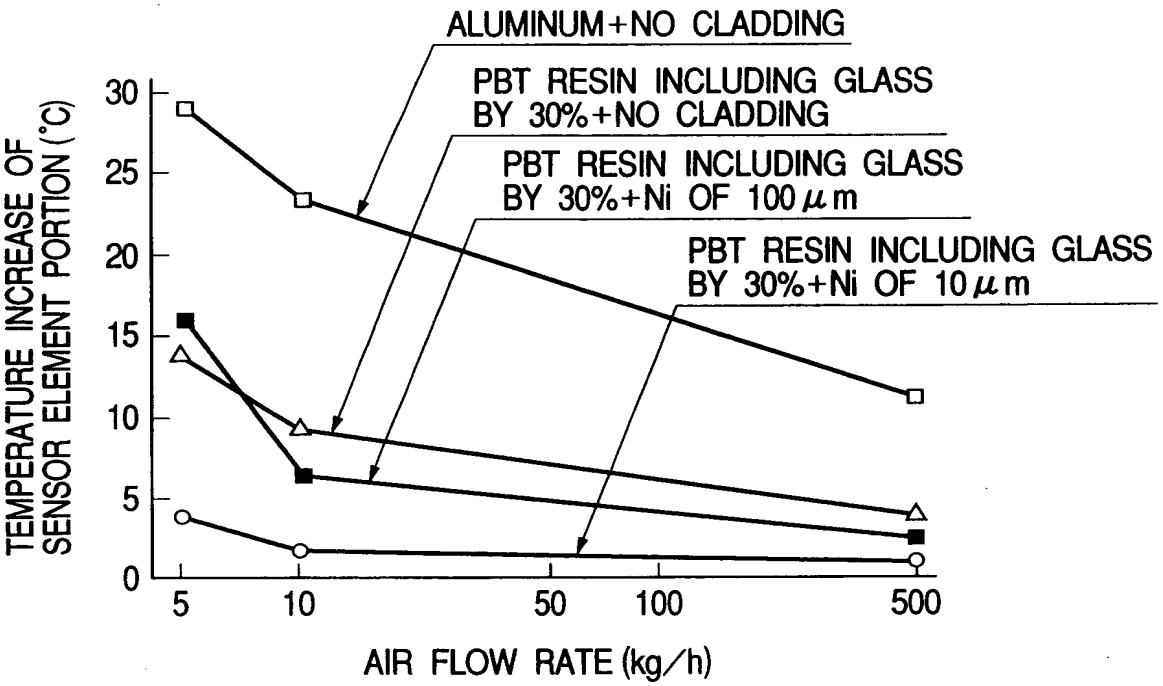
ALUMINUM+NO CLADDING
PBT RESIN INCLUDING GLASS BY 30%+NO CLADDING
PBT RESIN INCLUDING GLASS BY 30%+Ni OF 100 μm
PBT RESIN INCLUDING GLASS BY 30%+Ni OF 10 μm
TEMPERATURE INCREASE OF SENSOR ELEMENT PORTION (°C)
30
25
20
15
10
5
0
5
10
50
100
500
AIR FLOW RATE (kg/h)

FIG. 7

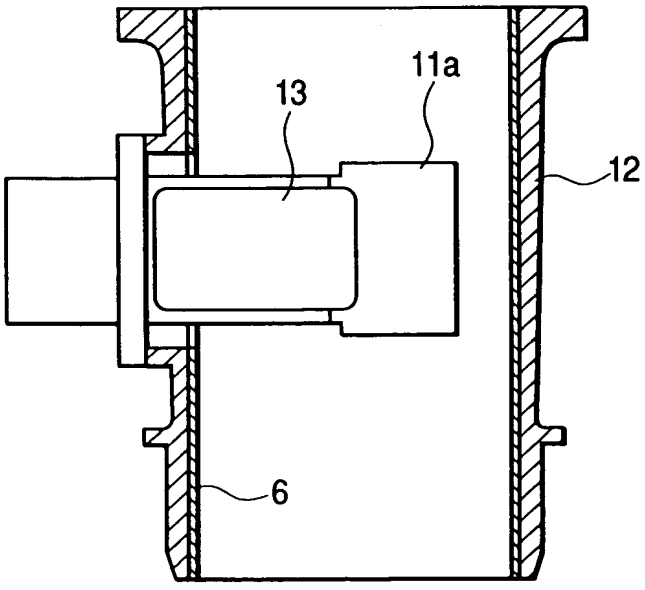
13
11a
12
6

FIG. 8

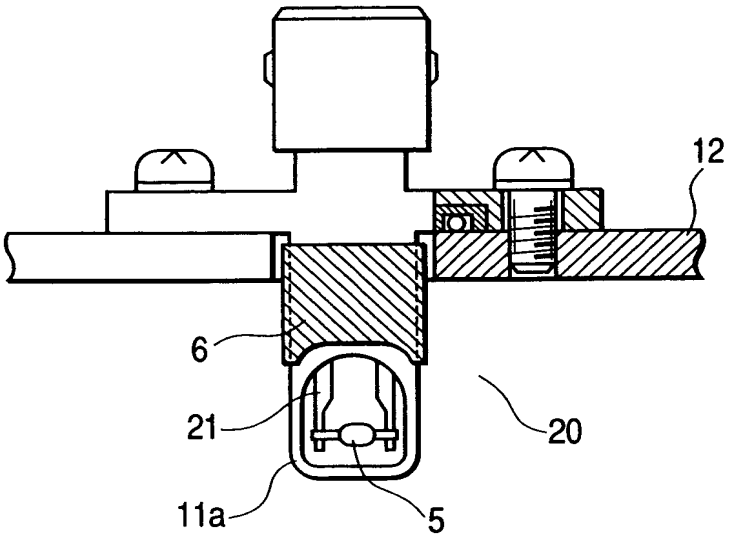

FIG. 9

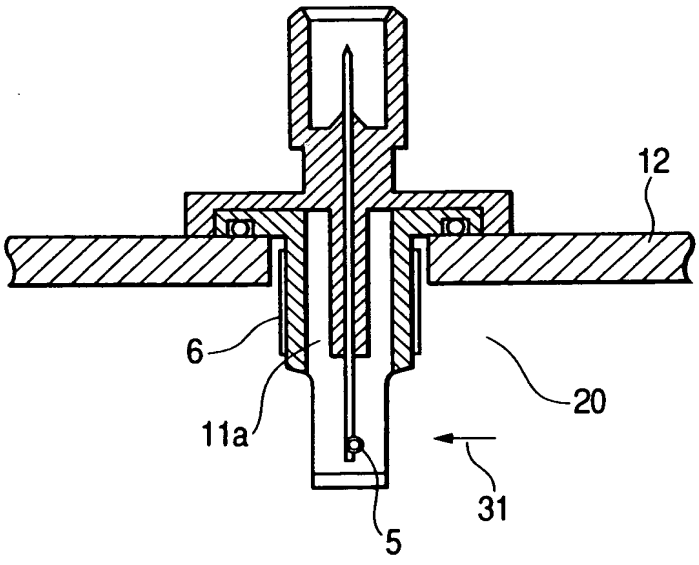

FIG. 10

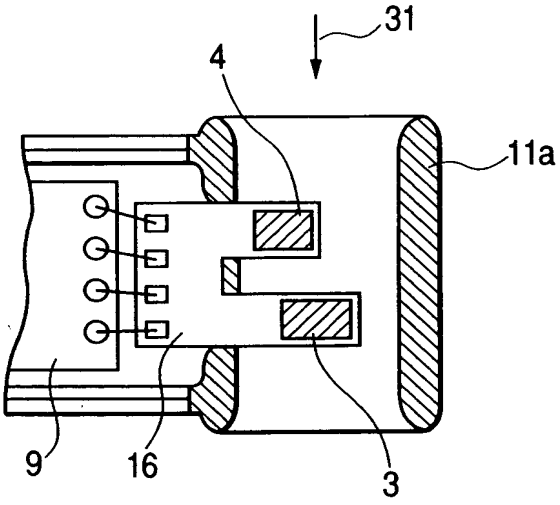

FIG. 11

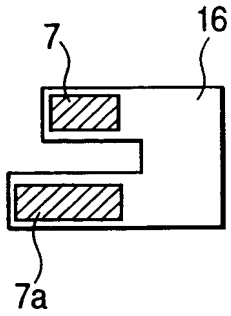

FIG. 12

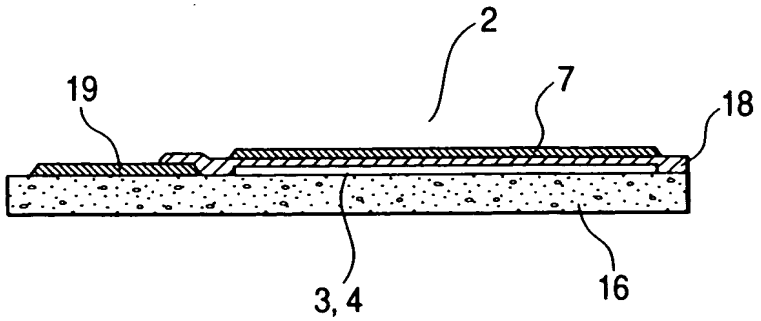

FIG. 13

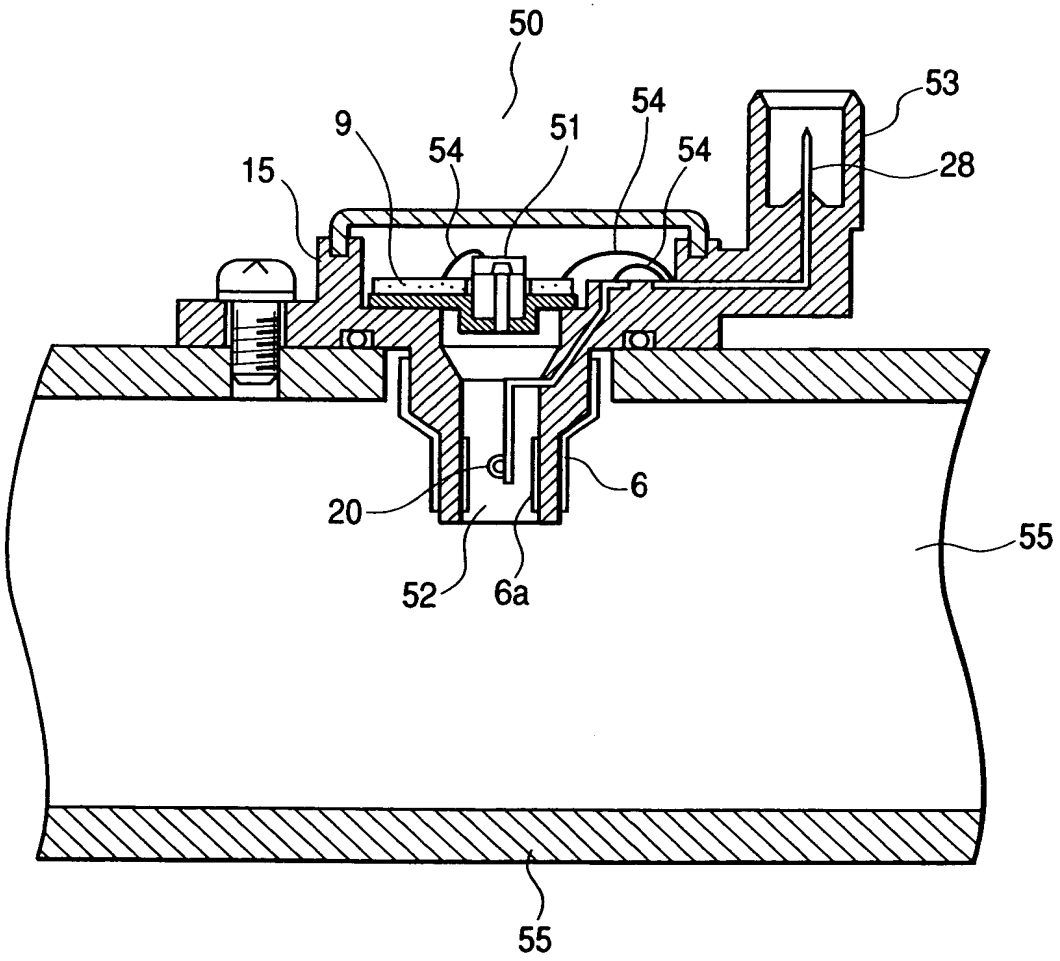

FIG. 14

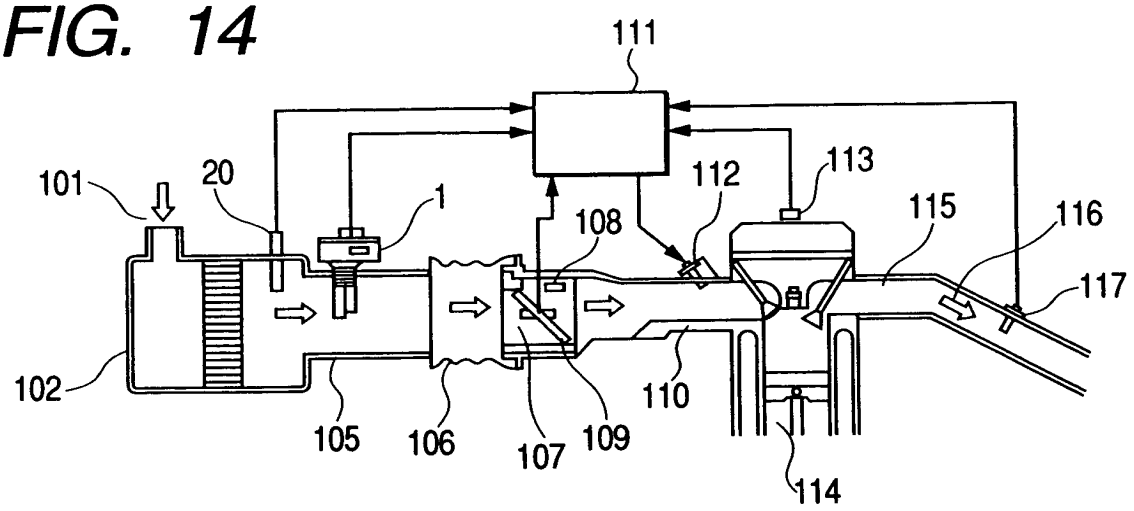

FIG. 15

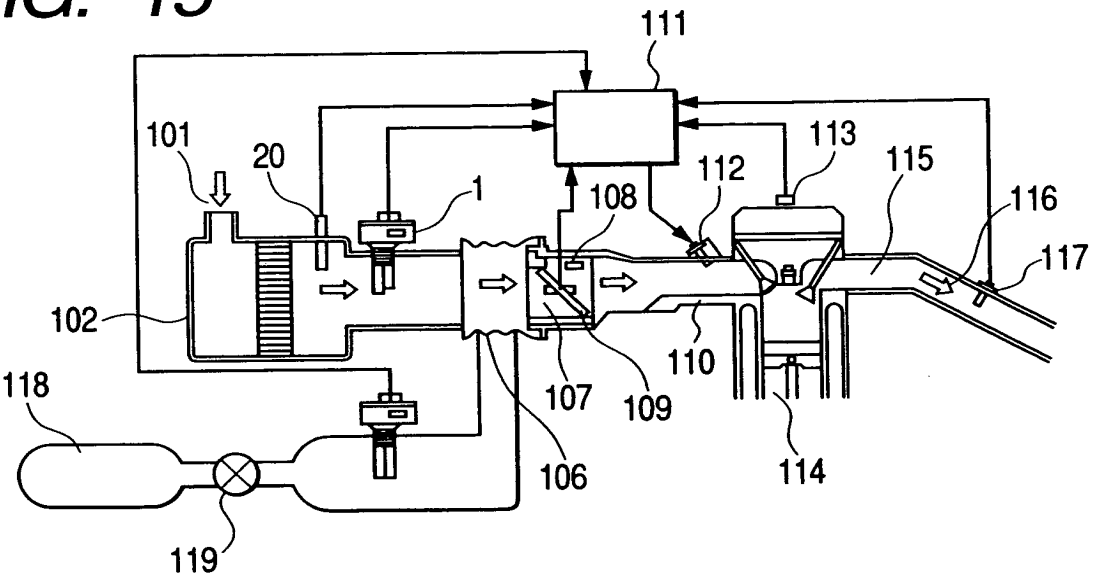

FIG. 16

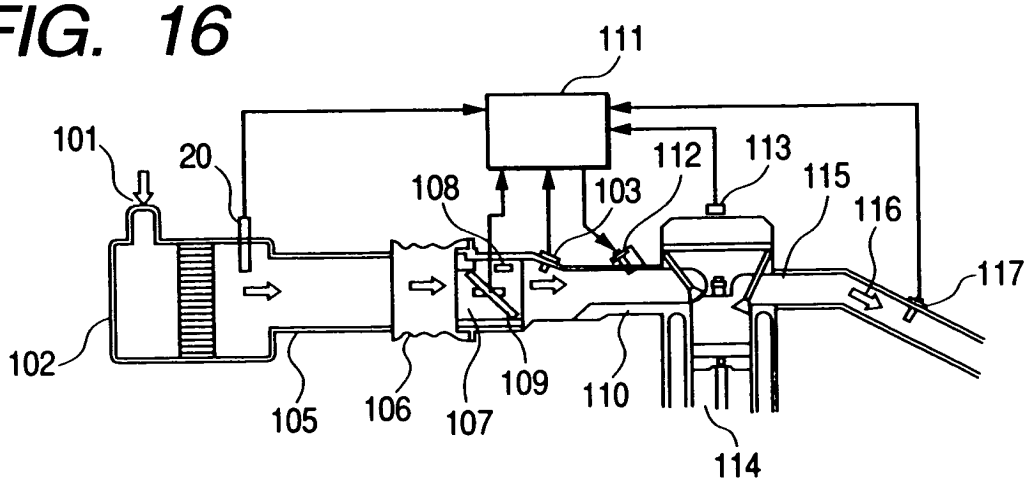

FIG. 17

No	MATERIAL OF HOUSING MEMBER AND AUXILIARY PASSAGE STRUCTURE MEMBER		EMISSIVITY *1	THERMAL CONDUCTIVITY (w/mk) *2	TEMP. INCREASE OF SENSOR ELEMENT PORTION (°C) *3
	PRIMARY PART	COVER FILM			
1	PBT RESIN INCLUDING GLASS BY 30%	NON	0.94	0.21	14
2	PPS RESIN INCLUDING GLASS BY 50%	NON	0.92	0.27	16
3	PBT RESIN INCLUDING GLASS BY 30%	Ni PLATING 10 μm	0.16	0.83	3.6
4	PBT RESIN INCLUDING GLASS BY 30%	Ni PLATING 30 μm	0.16	2.05	4.2
5	PBT RESIN INCLUDING GLASS BY 30%	Ni PLATING 100 μm	0.16	6.07	15
6	PBT RESIN INCLUDING GLASS BY 30%	Au PLATING 10 μm	0.12	2.32	5.2
7	ALUMINUM	NON	0.08	236	28

*1 : EMISSIVITY MEASURED WITH INFRARED THERMOMETER BY HEATING HOUSING AND AUXILIARY PASSAGE STRUCTURE TO 100 °C

*2 : CALCULATED VALUE OF HOUSING AND AUXILIARY PASSAGE STRUCTURE, COVERED WITH FILMS, ASSUMING THAT AVERAGE THICKNESS OF HOUSING MEMBER AND AUXILIARY PASSAGE STRUCTURE MEMBER IS 1.5mm

*3 : DIFFERENCE BETWEEN TEMP. OF SENSOR ELEMENT PORTION AND TEMP. OF INTAKE-AIR AT FLOW RATE OF 5kg/h IN TEST FACILITY SHOWN IN FIG. 5

FIG. 18

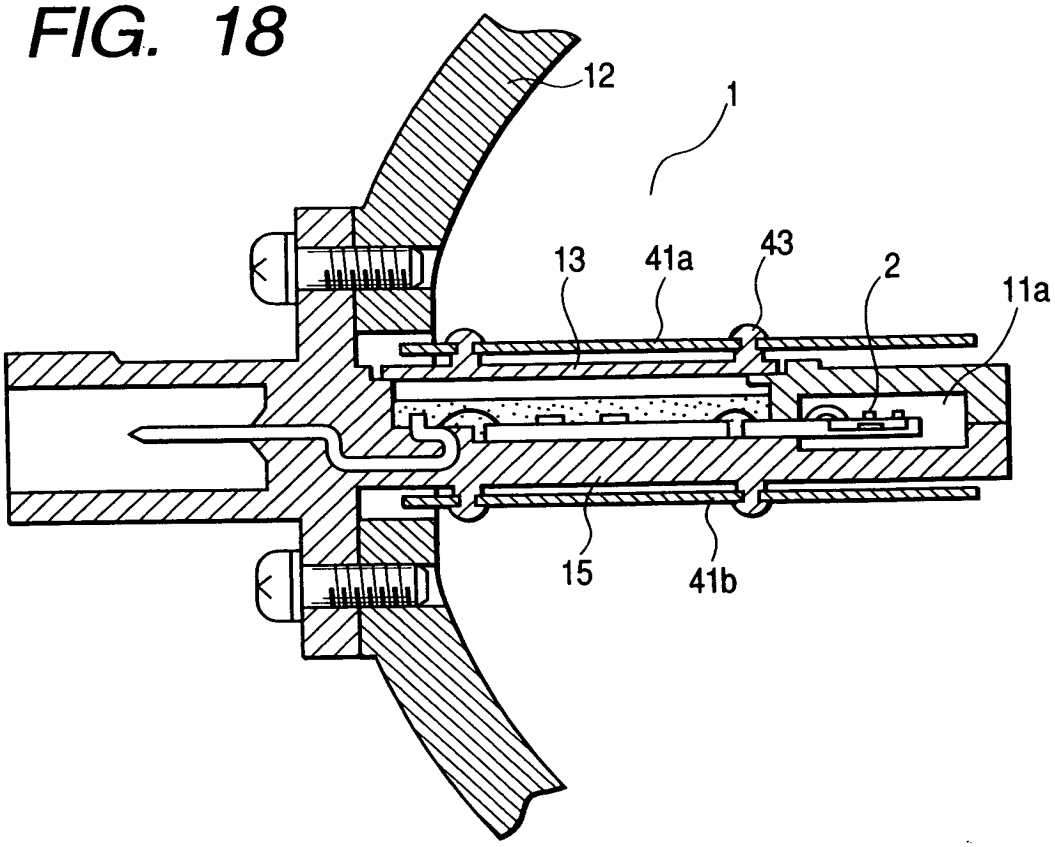

FIG. 19

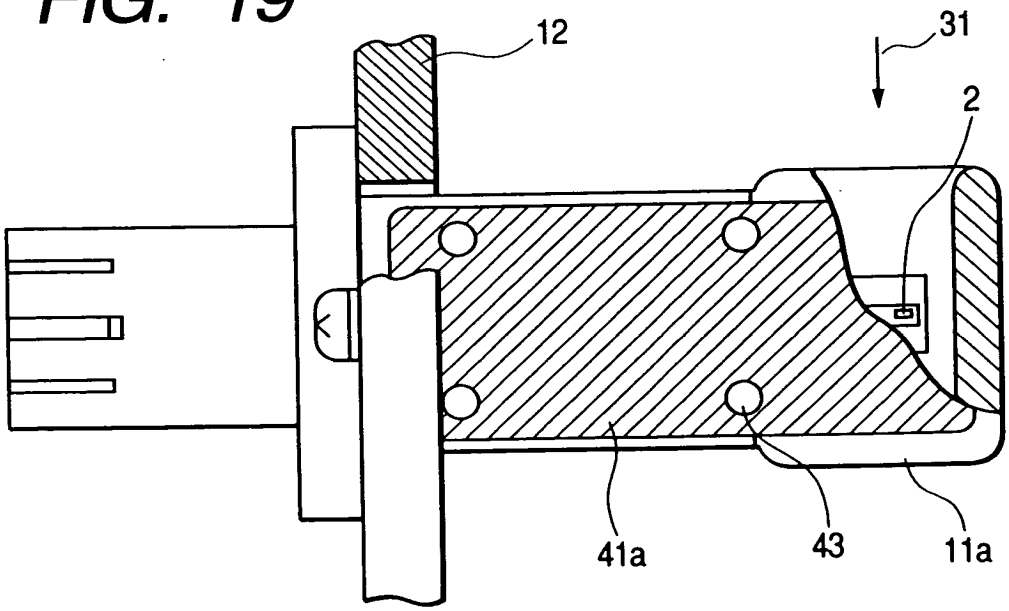

FIG. 20